

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**FUNCTIONALITY BASED PACKAGE DESIGN**

the specification of which is attached hereto, unless the following box is checked:

which was filed on \_\_\_\_\_,  
and assigned serial number \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §§ 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or PCT international application having a filing date before that of the application on which priority is claimed:

	Priority claimed	Certified Copy
<u>Application number</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Country</u>		
<u>Filing date</u>		

I hereby claim the benefit under 35 U.S.C. § 199(e) of any United states Provisional application listed below:

<u>Application number</u>	<u>Filing date</u>
---------------------------	--------------------

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<u>Application number</u>	<u>Filing date</u>	<u>Patent number, if applicable</u>
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I hereby appoint the following attorneys, with full power of substitution and revocation, to prosecute this application and any other applications based thereon and to transact all business in the United States Patent and Trademark Office and any other competent international authorities in connection therewith:

ATTORNEY	REG. #	ATTORNEY	REG. #
Andrew S. Neely	28,979	Mark P. Crockett	47,507
Mark S. Graham	32,355	J. David Gonce	47,601
Robert O. Fox	34,165	Michael T. Lukon	48,164
David E. LaRose	34,369	Leo J. Peters	33,562
Geoffrey D. Kressin	28,730	Timothy Croll	36,771
Rick Barnes	39,596	Sandeep Jaggi	43,331

and request that all correspondence and telephone calls in respect to this application be directed to:

**CUSTOMER NUMBER 24,319**

**LSI LOGIC CORPORATION**  
 Legal Department - IP  
 1621 Barber Lane, MS-D106  
 Milpitas CA 95035

Phone 1.408.954.4923  
 Fax 1.408.433.7460

Attorney docket: 03-0964

I hereby authorize the attorneys named herein to accept and follow instructions from LSI Logic Corporation as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the attorneys and myself. I hereby waive any right to revoke such power of attorney and appoint substitute attorneys, and grant all such powers to LSI Logic Corporation.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

58593.dec.doc

Full name of inventor:

Jeffrey A. Hall

9/29/2003

Jeffrey A. Hall

Date

Inventor's signature

Residence:

1027 Camino Ricardo, San Jose CA 95125

Post Office Address:

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Citizenship:

Citizen of United States of America

**Full name of inventor:**

Date

Residence:  
Post Office Address:  
Citizenship:

Aritharan Thurairajaratnam

7. Anthony

Inventor's signature

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6889 Westmoor Way, San Jose CA 95129  
Sri Lanka

**ASSIGNMENT RECORDATION COVER SHEET  
PATENTS ONLY**

To: The Commissioner for Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**SUBMISSION TYPE:**

New

**CONVEYANCE TYPE:**

Assignment

**CONVEYING PARTY(IES):**

Jeffrey A. Hall  
Aritharan Thurairajaratnam

**EXECUTION DATE OF ASSIGNMENT:**

2003.09.29  
2003.09.29

**RECEIVING PARTY:**

LSI Logic Corporation  
1621 Barber Lane  
Milpitas CA 95035

**CORRESPONDENT NAME AND ADDRESS:**

LSI Logic Corporation  
Legal Department – IP  
1621 Barber Lane, MS-D106  
Milpitas CA 95035  
Phone 1.408.954.4923  
Fax 1.408.433.7460

**APPLICATION NUMBER(S):**

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**PATENT NUMBER(S):**

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If this document is being filed together with a new application, the date the patent application was signed by the first named executing inventor is: 2003.09.29

**NUMBER OF PROPERTIES:**

1

**TOTAL PAGES OF ASSIGNMENT:**

2

**FEE AMOUNT:**

\$40.00

Please charge the fees to deposit account number 12-2252.

**STATEMENT AND SIGNATURE**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Date

2003.09.29

Rick Barnes, 39,596

## ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, do hereby sell, assign, and transfer to:

Assignee name: LSI Logic Corporation, a Delaware corporation  
 Assignee address: 1621 Barber Lane, Milpitas CA 95035

its successors, assigns, and legal representatives (collectively referred to as "Assignee"), the entire right, title and interest for the United States and all foreign countries, in and to any all inventions and improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith unless the box below is checked,

which was filed on: \_\_\_\_\_,  
 and assigned serial number: \_\_\_\_\_.

and is entitled:

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and in and to the application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on the improvements; and in and to all rights of priority resulting from the filing of the United States application; and

Agree that the Assignee may apply for and receive Letters Patent for the improvements in its own name; and that, when requested, without charge to, but at the expense of, the Assignee, to carry out in good faith the intent and propose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all the improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to the improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for the improvements and for vesting title to the improvements and all applications to patents and all patents on the improvements, in the Assignee; and

Covenant with the Assignee that no assignment, grant mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; and

Grant the firm of Luedeka, Neely & Graham, P.C., P.O. Box 1871, Knoxville TN 37901, the power to insert on this document any further information that may be necessary or desirable to comply with the rules of any relevant governmental office for the recordation of this document.

58593.asg.doc

Jeffrey A. Hall  
 Jeffrey A. Hall  
9/29/2003  
 Date

Connie del Castillo  
 Connie del Castillo  
Connie del Castillo  
 Witness name

Witness address
LSI Logic Corporation Legal Department - IP 1621 Barber Lane, MS D-106 Milpitas, CA 95035

Aritharan  
Aritharan Thurairajaratnam

9/29/2003  
Date

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